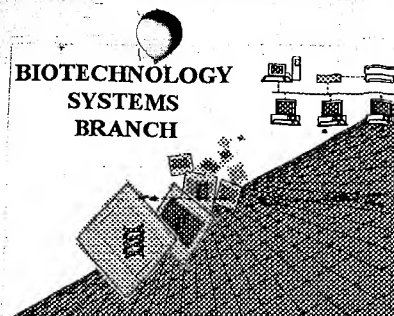


86

0330

RAW SEQUENCE LISTING **ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/667,188

Source: O/PE

Date Processed by STIC: 11/9/2000

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be downloaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/667,188

DATE: 11/09/2000

TIME: 12:04:05

Input Set : D:\Lib3280_1Reg.rpt

Output Set: N:\CRF3\11092000\I667188.raw

1 <110> APPLICANT: Andersen, Scott E.
 2 Masucci, James D.
 4 <120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
 5 Plants
 7 <130> FILE REFERENCE: 38-21(51464)B
 9 <140> CURRENT APPLICATION NUMBER: US/09/667,188
 9 <141> CURRENT FILING DATE: 2000-09-21
 9 <150> PRIOR APPLICATION NUMBER: 38-21(51464)A
 11 <151> PRIOR FILING DATE: 1999-09-22
 13 <160> NUMBER OF SEQ ID NOS: 8135
 15 <210> SEQ ID NO: 1
 16 <211> LENGTH: 332
 17 <212> TYPE: DNA
 18 <213> ORGANISM: Triticum aestivum
 20 <223> OTHER INFORMATION: Clone ID: LIB3280-001-PI-K1-A1
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 26 tacaaggga atcaactaac gatgatatag ctatttact ccaaatocca tatatcaaat 120
 28 cgcagcagga taagacaag acaaacattg tcttaattta gagctattca catatagttc 180
 30 actcaagtaa aaacccaagt tatectctgt catagctctg gctatatcag aagaatgtct 240
 32 latgcaaaag tttgtacatc acggcaacca agaaccgttg gttgtcatct tttcttggt 300
 34 accaccgaga tctggtcagt tctgaccat gg 332
 37 <210> SEQ ID NO: 2
 38 <211> LENGTH: 319
 39 <212> TYPE: DNA
 40 <213> ORGANISM: Triticum aestivum
 42 <223> OTHER INFORMATION: Clone ID: LIB3280-001-PI-K1-A10
 44 <400> SEQUENCE: 2
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 50 cactcgcct ccgcgcccat cctcgccac gacygcaccg tctgggccca gacygcgcac 180
 52 ttcccccagt tcgcgcgcgc cgagatcaet gccatcatga aggacttoga cgagccgggg 240
 54 cactcgcgc ccaccggcat gtlcgttgca ggtgccaagt acatggttat ccaaggtgaa 300
 56 cctggggccg tcatacgtg 319
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 60 <211> LENGTH: 357
 61 <212> TYPE: DNA
 62 <213> ORGANISM: Triticum aestivum
 64 <223> OTHER INFORMATION: Clone ID: LIB3280-001-PI-K1-A11
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 70 aatateclaa cagaccaaa ctaaaaccga aagcttagta gacaglggt aatccclaca 120
 72 cctaaccaga cctaatagac tctactaaa actacttct aacaagttct tctagtagt 180
 74 agggcaacaa ctaaatagag gacyccaaga aaaatccacg agtgcggtac aacagactaa 240
 76 tcaacygcac gcccgaaaa gatglacat acccgccgag gggaggggcg gctagaacga 300
 78 gggcacggcc gcccggtgg cggcctctat gacgacggg acgggggtct ttttggg 357
 81 <210> SEQ ID NO: 4

AP-1-5

Does Not Comply
Corrected Diskette Needed

Per 1.823 of new sequence Rules,
 insert <2207 wherever <2217,
 <2227, or <2237
 is shown.
 (global error)

same

error

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/667,188
 DATE: 11/09/2000
 TIME: 12:04:05

Input Set : D:\Lib3280_1Reg.rpt
 Output Set: N:\CRF3\11092000\I667188.raw

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 84 <213> ORGANISM: Triticum aestivum
 86 <223> OTHER INFORMATION: Clone ID: LIB3280-001-P1-K1-A12
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 94 agtgaagggc actcggacaa tgaatctcag aaaaggcagc caccatgaiga tggcagggggt 180
 96 tcagcgaatg gagctgaggg aaatggttaag gacatggag aaggcgcaga tagtgagagc 240
 98 taticagata gtggcagcat tggtaggicac gaagatgaag aagatcttct gtctgaggag 300
 100 aaatcaaatg atgcacgcga gaaacgaagggt gatgatgagg atgatgggat gcctgttggg 360
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 106 <211> LENGTH: 274
 107 <212> TYPE: DNA
 108 <213> ORGANISM: Triticum aestivum
 110 <223> OTHER INFORMATION: Clone ID: LIB3280-001-P1-K1-A2
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 116 gcttccagaa cccaatccct agccaaacca acgcttgalc ctagtccccc agcctactca 120
 118 cgggacatgg gctgtgataa tccgcgcggc attaccgaat tccagccgcg accgacgcgc 180
 120 gttcgtcttg atctccagg gctggcgcca ggtgcgggac tccgcgcgcg cgcgcctgca 240
 122 gatgatgctc actacggacc gattgggaac tggg 274
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 126 <211> LENGTH: 398
 127 <212> TYPE: DNA
 128 <213> ORGANISM: Triticum aestivum
 130 <223> OTHER INFORMATION: Clone ID: LIB3280-001-P1-K1-A3
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 136 ctctctgctt tcttctgcta gtcgcgtct tcttacaagg caacctaca ttgggttcag 120
 138 cggacgagga gtgcaagtae aggatccgt acgtaccctt ctgcaagggg tggagctgca 180
 140 aggtggagtg ctggctggag gccaaactct tccgcgcgcg tctacaggag cacaagtga 240
 142 tcagggggcg catcaagggc gctgctact gctcttctg cgggaagcac ctccaatgaa 300
 144 atacatacat catccatcca tcatttgctc gctcgtcgt ccagtaggca ttaccactag 360
 146 ttatttatct caaacgttcc tcatccagct tgccttat 398
 149 <210> SEQ ID NO: 7
 150 <211> LENGTH: 218
 151 <212> TYPE: DNA
 152 <213> ORGANISM: Triticum aestivum
 154 <223> OTHER INFORMATION: Clone ID: LIB3280-001-P1-K1-A4
 156 <400> SEQUENCE: 7
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 160 gaggtgggct tcccttctc tgtgcctaga ccatacatcc aaccttctta tttttcactL 120
 162 aatccaggcg aagtaccacc tccgtgagct tgttgaaagg aggcgcgcgt agtccagaca 180
 164 tcggtaacctg tctgaaagta catcccgacc cgtttgac 218
 167 <210> SEQ ID NO: 8
 168 <211> LENGTH: 246
 169 <212> TYPE: DNA

same

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/667,188

DATE: 11/09/2000
 TIME: 12:04:05

Input Set : D:\Lib3280_1Reg.rpt
 Output Set: N:\CRF3\11092000\I667188.raw

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 172 <223> OTHER INFORMATION: Clone ID: LIB3280-001-P1-K1-A6
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 178 tgcateccctc ccgcgcgcgc ccgcaccgtc ctegettiacc agegcgcctc ctgcgcgcct 120
 180 tcttccagcg tgcctgcggt cggcctgtcc ttgagcgcgc cgcgcgcgcg ccttctctc 180
 182 gacgcgcaccg ctgcgcgcgc tgcctctcag ctacccgcgc gtcgcgcctgc tcccaacagc 240
 184 catatt 246
 187 <210> SEQ ID NO: 9
 188 <211> LENGTH: 232
 189 <212> TYPE: DNA
 190 <213> ORGANISM: Triticum aestivum
 192 <223> OTHER INFORMATION: Clone ID: LIB3280-001-P1-K1-A7
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 198 aaaaactgaa tcagattgat ccagttattt cagcgtcatt atgcctctct ttttcttcaa 120
 200 catacagcgt aagaggcacc ctaatgttcc atccccaaaca gtggcacagc tctgcataac 180
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 206 <211> LENGTH: 253
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 208 <213> ORGANISM: Triticum aestivum
 210 <223> OTHER INFORMATION: Clone ID: LIB3280-001-P1-K1-A8
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 216 gtcgcgcgtc tcttacaagg caaccctaca ttggtttcag cggacgagga gtgcaagtac 120
 218 aggatctcgt acgtaccctt ctgcaagggg tggagctgca aggtggagtg ctggctggag 180
 220 gccaaagcttt tcgcgcgcgc tctacaggag cacaagtgca ttaggggcgc catcaagggc 240
 222 gctgctact gcc 253
 225 <210> SEQ ID NO: 11
 226 <211> LENGTH: 394
 227 <212> TYPE: DNA
 228 <213> ORGANISM: Triticum aestivum
 230 <223> OTHER INFORMATION: Clone ID: LIB3280-001-P1-K1-A9
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 236 atggatgatt atgaatgaat ggtatcttcc tgcctttggc acattagctt tgcctgggtc 120
 238 aagtgatggg ttggatgggt ttttagcaag aaagatgggc atcaattctg tcatgggttc 180
 240 atatctggac ccatgggtg acaagggtgt gatttgcgtt gttgctgtag caatgggtga 240
 242 gaaggagctc ttacatcctg gccttgttgg cctgggtggtt gcaagagact ttctcctggt 300
 244 ggggtggggt tttacaaac gacatccag cctgggatgg aagtggaaca gttgggcaaa 360
 246 cttttgtaac ttatagtgca ttoagcgtga gaag 394
 249 <210> SEQ ID NO: 12
 250 <211> LENGTH: 187
 251 <212> TYPE: DNA
 252 <213> ORGANISM: Triticum aestivum
 254 <223> OTHER INFORMATION: Clone ID: LIB3280-001-P1-K1-B1
 256 <400> SEQUENCE: 12
 258 gttcaacttc tgtatcatgt cacagatggc tggagcatct ctctggagtc tcttcggggc 60

same

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/667,188
 DATE: 11/09/2000
 TIME: 12:04:05

Input Set : D:\Lib3280_1Reg.rpt
 Output Set: N:\CRF3\11092000\I667188.raw

260 agcagcggt tgtagcaggc agtgggagct tctctgccag ccagtaggct cgcaggcgc 120
 262 tcgagcatag agtcgtagag ctgtcaaatc tgaagtcagt ctcagcttcg cggtagtttc 180
 264 ctctaga 187
 267 <210> SEQ ID NO: 13
 268 <211> LENGTH: 399
 269 <212> TYPE: DNA
 270 <213> ORGANISM: Triticum aestivum
 272 <223> OTHER INFORMATION: Clone ID: LIB3280-001-P1-K1-B10
 274 <400> SEQUENCE: 13
 276 cccacgcgtc cggacaatal ctctgtcacc aagggggttg ttctagagtg ggaaccaaca 60
 278 cagtatgcc atggtgcgac tcagctcatg gctatacaaa tagatgcage tattaatcca 120
 280 ggcaatagtg gagggcctgc aatcatgggt gataaagtgc ctggagttgc ttcccaaaat 180
 282 ctgtcaggag cagaaaacat tgggtatatt atacctgtgc ctgtaattaa gcgttttatl 240
 284 tctggtgttg aagagagtgg caaatattct gggttttgtt ctcttgggat atcttgcag 300
 286 gccactgaga acatccaaat aagagagtgc ttgtgtatgc ggccctgaaat gactggagt 360
 288 ttagtcagta gaataaatcc tctgtctggt gcttacgaa 399
 291 <210> SEQ ID NO: 14
 292 <211> LENGTH: 400
 293 <212> TYPE: DNA
 294 <213> ORGANISM: Triticum aestivum
 296 <223> OTHER INFORMATION: Clone ID: LIB3280-001-P1-K1-B11
 298 <400> SEQUENCE: 14
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 302 gccctccgcg cgcgcccgac gcccgctcac gccgcggagg tctccttgcc ggcggcgccg 120
 304 cgcagcatg gcattggcga tcaggagctg gacgggacgg tgcagtgcct gatcgggtgc 180
 306 ltgacgactg ttctgggctg cgccttcaag tgcctgcgcg tgcgcaaggg cattgacctg 240
 308 ccgctctcgc tcctcgctgc caacgatagg gccatcgtct gcattgtcag ctgcggcaag 300
 310 ccaccttccc cgcggggtcc caagccgcca gtgccacctt atcccacacc gacgcgctct 360
 312 gctccacac cgaagccgtc agagccgtct gctcccacac 400
 315 <210> SEQ ID NO: 15
 316 <211> LENGTH: 402
 317 <212> TYPE: DNA
 318 <213> ORGANISM: Triticum aestivum
 320 <223> OTHER INFORMATION: Clone ID: LIB3280-001-P1-K1-B12
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 326 cgagcaagag caccggcgcc gccctccggg cgcgggactt cgactacgac gactacagcg 120
 328 ggggagacaa gctccgtggc gccgcctcgc ggcgcgggga ctctgactac gacgactaca 180
 330 gcggggcgca caagctccgt ggcgcacccg atgaatacaa ggcgcggagc agcagcctcg 240
 332 ctggaaacgg ggcgtccatg gctaggggag gcaaggcgga gacgacgagc gtgttcttcc 300
 334 acgaggaggg ggtgcgcgtc ggcaagaggg tcccaltccg ctcccgcccg gcgactcccg 360
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 340 <211> LENGTH: 360
 341 <212> TYPE: DNA
 342 <213> ORGANISM: Triticum aestivum
 344 <223> OTHER INFORMATION: Clone ID: LIB3280-001-P1-K1-B2
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same

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/667,188

DATE: 11/09/2000
TIME: 12:04:05

Input Set : D:\Lib3280_lReg.rpt
Output Set: N:\CRF3\11092000\I667188.raw

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350 letagtgcat atatccaaac tcaagaatac agcettgcac cttttctaaa tcagcaagtt 120
352 ctttaaaattt tgtaattcta gatggcccac tgaatgagac cagalltaat ctccggttagc 180
354 tgagtttagc aaacccgtac actatattga tacggagaac ttcccggtac aagtagccta 240
356 agacacttca ttcagcagtg ttataaataa tacagtagct gtacacccat tagcacgcgg 300
358 ctttttggtc gatgcgctaa tccctccgca cctggtgac ggcgttacat atcgattggg 360
361 <210> SEQ ID NO: 17
362 <211> LENGTH: 363
363 <212> TYPE: DNA
364 <213> ORGANISM: Triticum aestivum
366 <223> OTHER INFORMATION: Clone ID: LIB3280-001-P1-K1-B3
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372 tgcacaaga gaaaaaaca aagcactct tacctaagct tgcagtagtt ctagtcttca 120
374 aaacaccatt atggatagag aatatalgca taaaagtcga cgaagaaca atagggcgac 180
376 tgcagcatag ctctactaa cttcctaacc ggcgtctctc taccagtgtt ctclactggt 240
378 agttctctcc tggcccgctc ctgccctcgt agggaggagg ggcggcggtt ttgtagttac 300
380 cgcacacctg gtagecctgg ttaccacctg gttggccctg gtagtctggt gcaccaccac 360
382 cat 363
385 <210> SEQ ID NO: 18
386 <211> LENGTH: 355
387 <212> TYPE: DNA
388 <213> ORGANISM: Triticum aestivum
390 <223> OTHER INFORMATION: Clone ID: LIB3280-001-P1-K1-B4
392 <400> SEQUENCE: 18
394 agtcccatca aacttgattg actgataaat gatgtacaca agaccaaate aagtcacga 60
396 agaaaaatgg atcagacggg aactgaaaa tggcatgcac aggtttactg gccagctggt 120
398 gttgcgttga tgatgtcggg atcgcagagg tcatgatac tcaggcagca gactcggaag 180
400 tatttaccac acgcagttcc caaatcaaca ttgtttccat ggtagtgggt gacagtgate 240
402 ttcgccaaca tagcatagta ctcaatctca gaattgcgga gtggagggca gttgttagca 300
404 aggatecaaa gctttgcctt ggagttcctg aggttctga ggaagggtct gtagc 355
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408 <211> LENGTH: 342
409 <212> TYPE: DNA
410 <213> ORGANISM: Triticum aestivum
412 <223> OTHER INFORMATION: Clone ID: LIB3280-001-P1-K1-B5
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418 aagaaaattg tctcagacta cacacattaa atggettcca caggtttact gtccaactgg 120
420 agttgcattt atgatctcca aattgtcagg tgcataate ctccagcate atactctgaa 180
422 gtttttacca cagcagatc caaatcaac attgttttca tgalattatt ggacaatgat 240
424 ttttaccac atalcataat actcaatttt agacttgcgg agaagaagca attgttatcc 300
426 aaggatcaca aagttttgcc tttagattct caaaaattcc tt 342
429 <210> SEQ ID NO: 20
430 <211> LENGTH: 406
431 <212> TYPE: DNA
432 <213> ORGANISM: Triticum aestivum
434 <223> OTHER INFORMATION: Clone ID: LIB3280-001-P1-K1-B6
436 <400> SEQUENCE: 20
438 gacgaaccgg agaggaacat caggttttag catcgcgatt ttcccagaag cgtttcggcg 60

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Same

FYI:

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/667,188

DATE: 11/09/2000

TIME: 12:04:06

Input Set : D:\Lib3280_1Reg.rpt

Output Set: N:\CRF3\11092000\I667188.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:1852 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84
L:2216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100
L:2478 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113
L:2504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114
L:3092 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142
L:3094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142
L:3122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143
L:3198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:146
L:3248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:148
L:3784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:173
L:3802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:174
L:3928 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:179
L:4650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:212
L:4704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:214
L:4750 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:216
L:4894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222
L:4898 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222
L:4958 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:224
L:5068 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:229
L:5194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:234
L:5196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:234
L:5220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:235
L:5442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245
L:5578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:250
L:5926 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265
L:6290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:280
L:6598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294
L:6730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:300
L:7206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:322
L:7500 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:335
L:7846 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:351
L:7878 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:352
L:8624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:386
L:8692 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:390
L:8764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:393
L:8936 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:401
L:9004 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:404
L:9266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:416
L:9808 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:439
L:10562 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:472
L:11108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:497
L:11328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:507
L:11632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:520
L:12886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:576
L:13050 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:584

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/667,188

DATE: 11/09/2000

TIME: 12:04:06

Input Set : D:\Lib3280_lreg.rpt

Output Set: N:\CRF3\11092000\I667188.raw

L:14352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:644
L:14802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:666
L:14882 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:670
L:14976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:675